



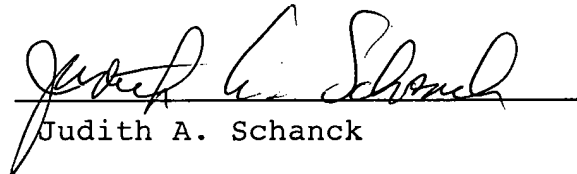
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Date of Deposit: May 1, 2006

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Judith A. Schanck



## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/676,553
Filing Date	October 1, 2003
First Named Inventor	Leonid Zeygerman et al
Art Unit	1725
Examiner Name	Maria Alexandra Elve
Attorney Docket Number	TAI-14/30536

### ENCLOSURES (Check all that apply)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Fee Transmittal Form                             | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached                                     | <input type="checkbox"/> Licensing-related Papers                                       | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply                                  | <input checked="" type="checkbox"/> Petition  | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final                                      | <input type="checkbox"/> Petition to Convert to a Provisional Application               | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                        | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                        | <input type="checkbox"/> Terminal Disclaimer  | <input type="checkbox"/> Other Enclosure(s) (please identify below):                    |
| <input type="checkbox"/> Express Abandonment Request                      | <input type="checkbox"/> Request for Refund   |   |
| <input type="checkbox"/> Information Disclosure Statement                 | <input type="checkbox"/> CD, Number of CD(s) _____                                      |   |
|   | <input type="checkbox"/> Landscape Table on CD  |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)           | <input type="text"/> Remarks  |   |
| <input type="checkbox"/> Reply to Missing Parts/Incomplete Application    |   |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 |   |   |

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Pepe & Hazard LLP		
Signature			
Printed name	Peter L. Costas		
Date	May 1, 2006	Reg. No.	18,637

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Signature

Typed or printed name

Judith A. Schanck

Date

5/1/06

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05/02/06

1Fu



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.: 10/676,553  
Applicant: LEONID ZEYGERMAN ET AL  
Filed: October 1, 2003  
TC/A.U.: 1725  
Examiner: Maria Alexandra Elve

Confirmation No. 7678

Docket No.: TAI-14/30536  
Customer No.: 26614

May 1, 2006

Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

Sir:

PETITION TO WITHDRAW HOLDING OF ABANDONMENT

Pursuant to the provisions of 37 C.F.R. § 1.181, Applicants respectfully petition the Commissioner to withdraw the holding of abandonment of the captioned application.

Apparently, as a result of the recent efforts of a paralegal for Applicants' attorney in this matter to ascertain the status of the application in which the issue fee had been paid on August 22, 2005, a Notice of Abandonment dated April 26, 2006 was today received by Applicants' attorney. The Notice of Abandonment states that Applicants failed to timely file corrected drawings as required in the Notice of Allowability.

As originally filed, the application utilized informal drawings. On February 18, 2004, a Notice to File Corrected Application Papers was issued and required "clean" replacement drawings of Figures 4a, 4b and 9b. A copy is attached hereto as Exhibit A.

Replacement drawings were sent on March 10, 2004. Copies of the drawing and the transmittal documents are appended as Exhibit B.

On October 25, 2004, Applicants submitted formal drawings as will be noted from the copy of the submission document and the postcard filing receipt, collectively appended hereto as Exhibit C.

On March 22, 2005, the Examiner indicated that the formal drawings filed on October 25, 2004 were accepted. A copy of the Official Action is appended hereto as Exhibit D.

On April 7, 2005 the application was published with the formal drawings. A copy is hereto as Exhibit E.

In response to the requirement set forth in the Notice of Allowability dated August 17, 2005 and the comments in the Examiner's Amendment included therewith (Exhibit F), the Patent Office file was reviewed the formal drawings were found to be present in the file.

Under the circumstances, Applicant's attorney reasonably believed that it was not necessary to file a duplicate set of drawings since the formal drawings had already been accepted and which were present in the file.

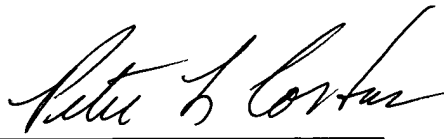
The issue fee was filed on August 22, 2005 as is evidenced by the documents attached as Exhibit G.

Applicants' attorney then filed a response on August 31, 2005 pointing out that the formal drawings had been filed on October 25, 2004 and had been accepted in the Official Action dated March 22, 2005, a copy of which is attached as Exhibit H.

Accordingly, it is respectfully submitted that the holding of abandonment should be withdrawn and the application passed to issue.

Respectfully submitted,

LEONID ZEYGERMAN ET AL

By 

Peter L. Costas  
Attorney for Applicants  
Registration No. 18,637  
(860) 242-1630



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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/676,553	10/01/2003	Leonid Zeygerman	TAI-14

26614  
 PEPE & HAZARD, LLP  
 225 ASYLUM ST.  
 HARTFORD, CT 06103

CONFIRMATION NO. 7678

## FORMALITIES LETTER



\*OC000000011910435\*

Date Mailed: 02/18/2004

## NOTICE TO FILE CORRECTED APPLICATION PAPERS

*Filing Date Granted*

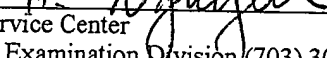
An application number and filing date have been accorded to this application. The application is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given TWO MONTHS from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121 are required. The drawings submitted are not acceptable because:
  - The drawings must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 4a, 4b, 9b.

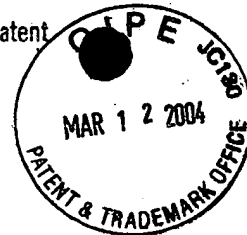
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 Alexandria VA 22313-1450

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PART 1 - ATTORNEY/APPLICANT COPY

The following papers have been received in the Patent  
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TAI-14  
Leonid Zeygerman et al  
Sr. No. 10/676,553  
Filed October 1, 2003  
LASER PROCESSING INSTALLATION WITH READILY  
ACCESSIBLE CUTTING UNIT

Response To Notice To File Corrected  
Application Papers; Corrected Drawings  
(Figures 4a, 4b and 9b)

Mailed 3/10/04 jas

MAR 17 2004



PTO/SB/21 (05-03)  
Approved for use through 04/30/2003. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/676,553
	Filing Date	October 1, 2003
	First Named Inventor	Leonid Zeygerman et al
	Art Unit	3722
	Examiner Name	Not Assigned
Total Number of Pages in This Submission	Attorney Docket Number	TAI-14/30536

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input checked="" type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Peter L. Costas Pepe & Hazard LLP
Signature	
Date	March 10, 2004

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Typed or printed name	Judith A. Schanck		
Signature		Date	3/10/04

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No. : 10/676,553 Confirmation No. 7678  
Applicant : Leonid Zeygerman et al  
Filed : October 1, 2003  
TC/A.U. : 3722  
Examiner: : Not Assigned

Docket No. : 30536-14-US0/TAI March 10, 2004  
Customer No. : 26614

**RESPONSE TO NOTICE TO FILE  
CORRECTED APPLICATION PAPERS**

In response to the Notice to File Corrected Application Papers dated February 18, 2004, Applicants submit herewith replacement drawings for Figures 4a, 4b and 9b.

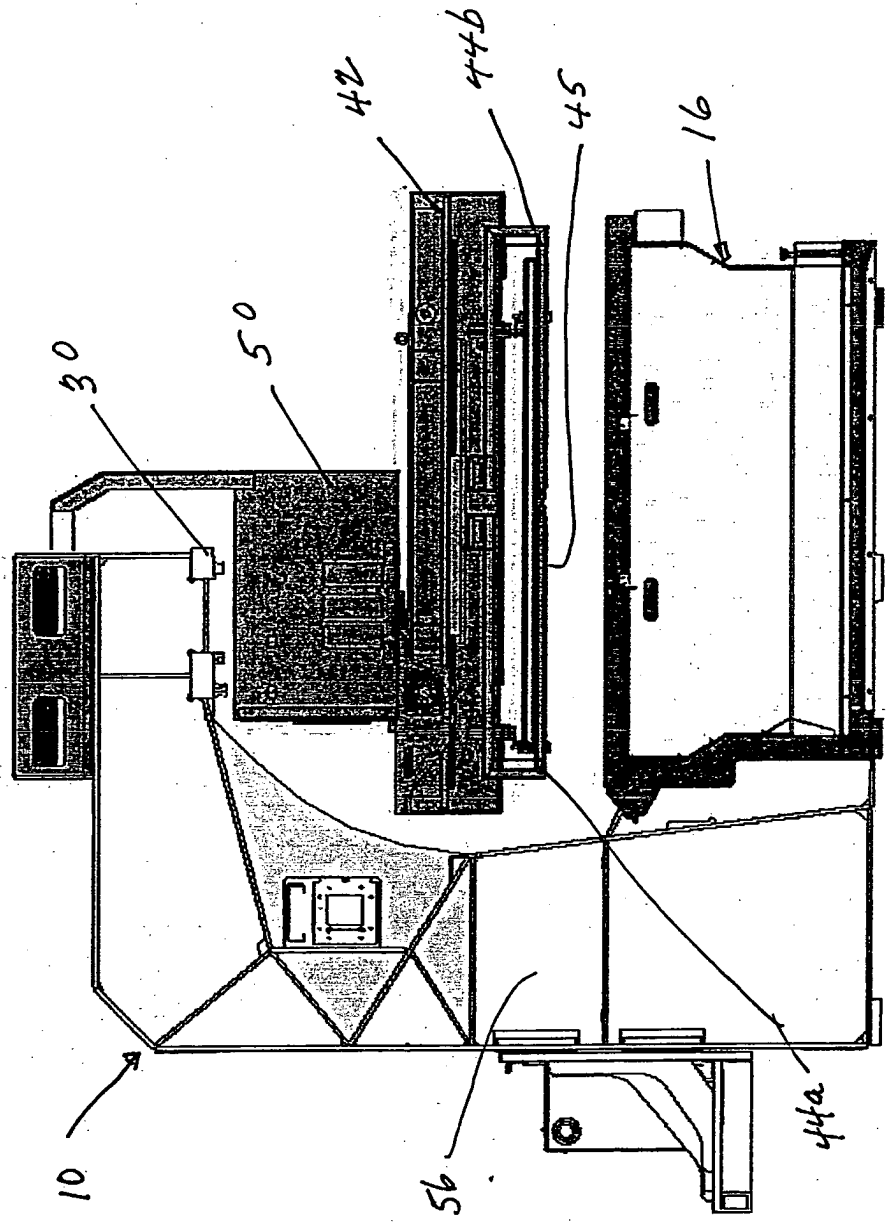
Respectfully submitted,

LEONID ZEYGERMAN ET AL

By 

Peter L. Costas  
Attorney for Applicants  
Registration No. 18,637  
(860) 241-2630

FIG 4a



U.S. PATENT & TRADEMARK OFFICE  
MAY 01 2006

FIG. 4b

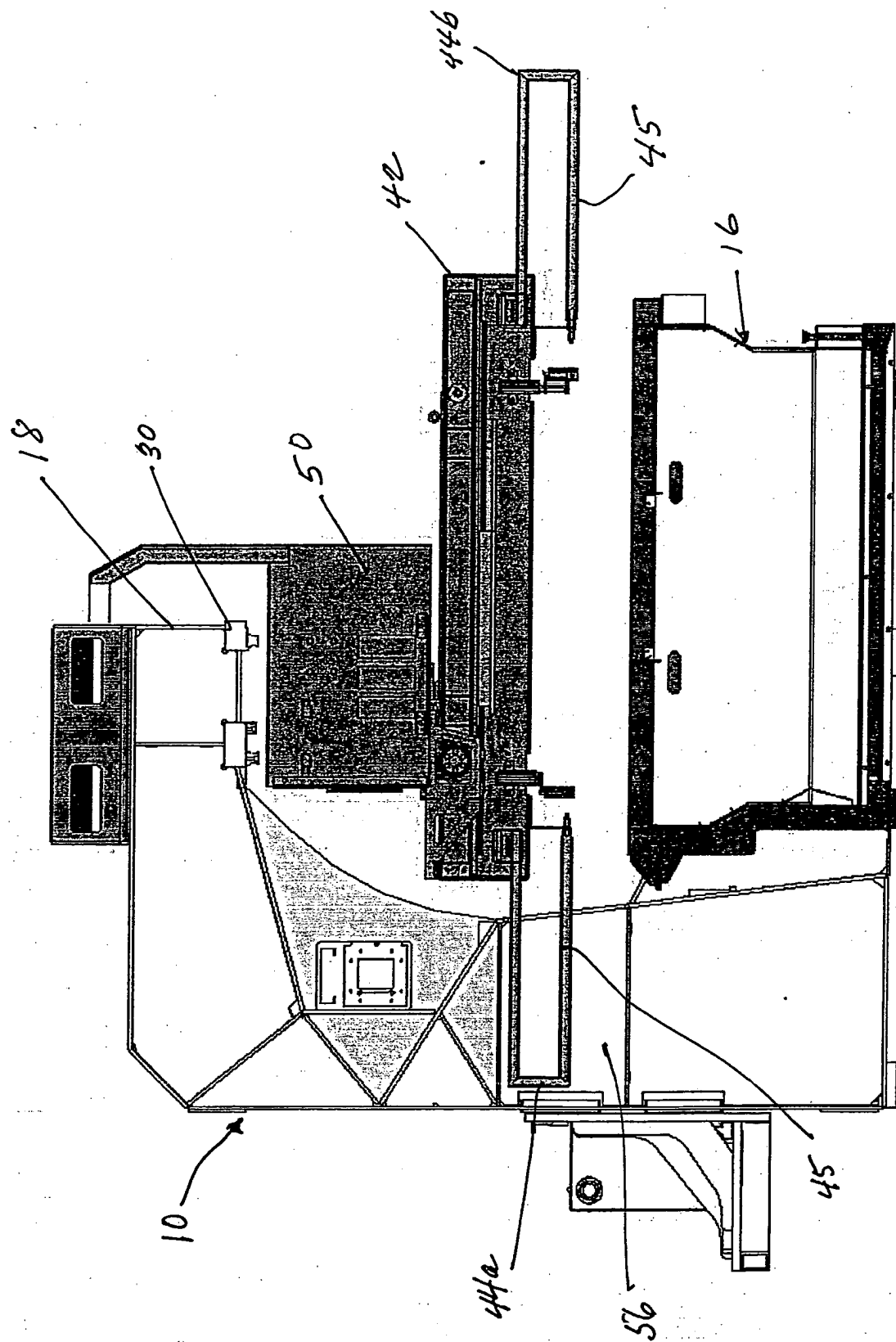
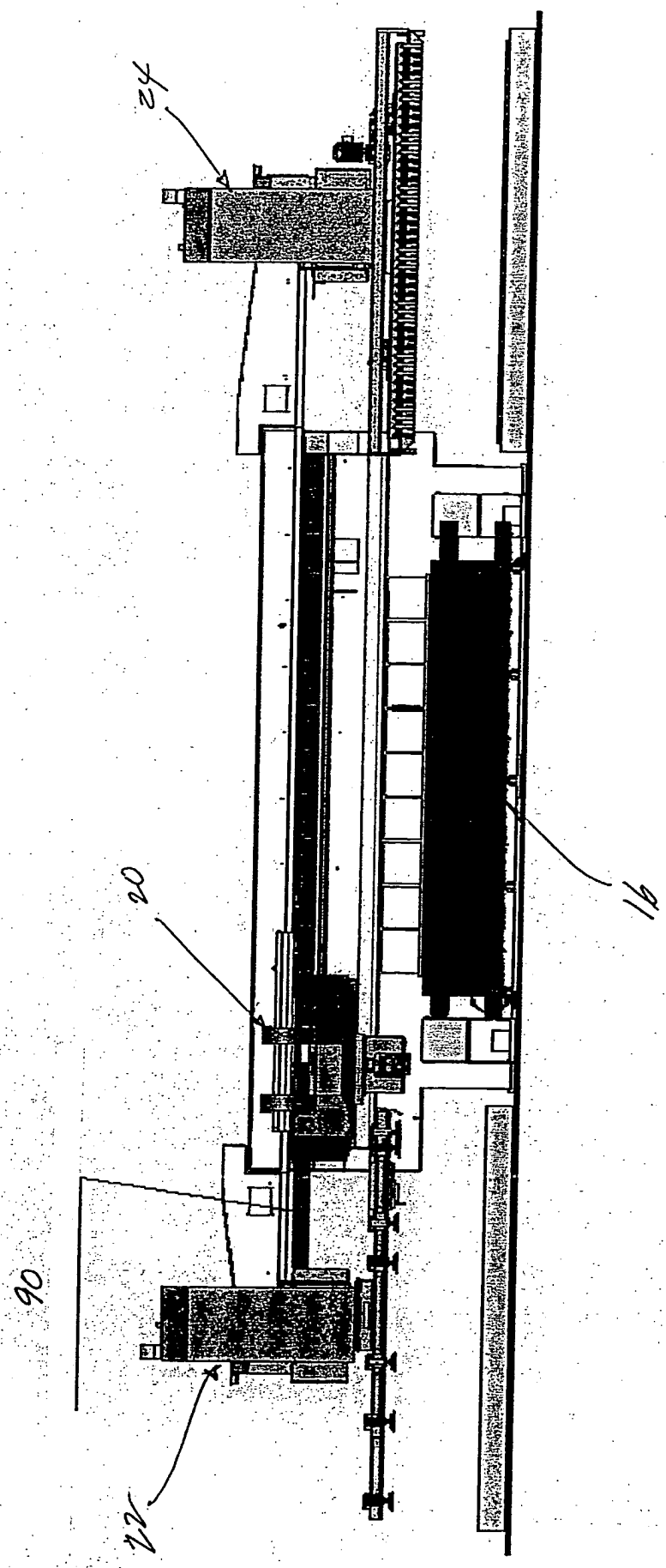


FIG. 26



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TAI-14  
Leonid Zeygerman et al  
Sr. No. 10/676,553  
Filed October 1, 2003



Transmittal Form;  
Submission of Formal Drawings; 15 sheets;

Express Mailed 10/25/04 jas

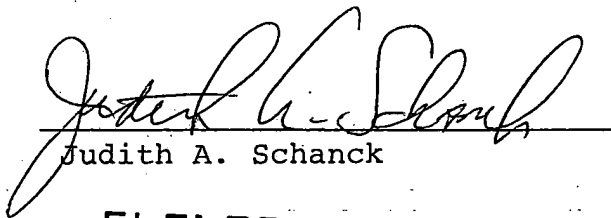


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Judith A. Schanck

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/676,553
	Filing Date	October 1, 2003
	First Named Inventor	Leonid Zeygerman
	Art Unit	3722
	Examiner Name	Maria A. Elve
Total Number of Pages in This Submission	Attorney Docket Number	TAI-14/30536

ENCLOSURES (Check all that apply)		
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<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Pepe & Hazard LLP Peter L. Costas
Signature	
Date	October 25, 2004

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Typed or printed name	Judith A. Schanck		
Signature		Date	10/25/04

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.: 10/676,553

Confirmation No. 7678

Applicant: LEONID ZEYGERMAN et al

Filed: October 1, 2003

TC/A.U.: 3722

Examiner: Maria A. Elve

Docket No.: TAI-14/30536

October 25, 2004

Customer No.: 26614

Commissioner for Patents

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Sir:

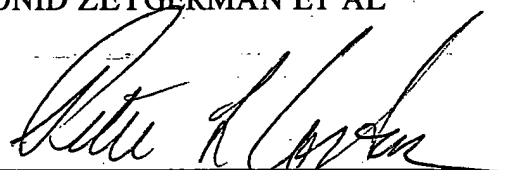
SUBMISSION OF FORMAL DRAWINGS

Applicants submit herewith formal drawings in the captioned application

Respectfully submitted,

LEONID ZEYGERMAN ET AL

By



Peter L. Costas

Attorney for Applicants

Registration No. 18,637

(203) 241-2630



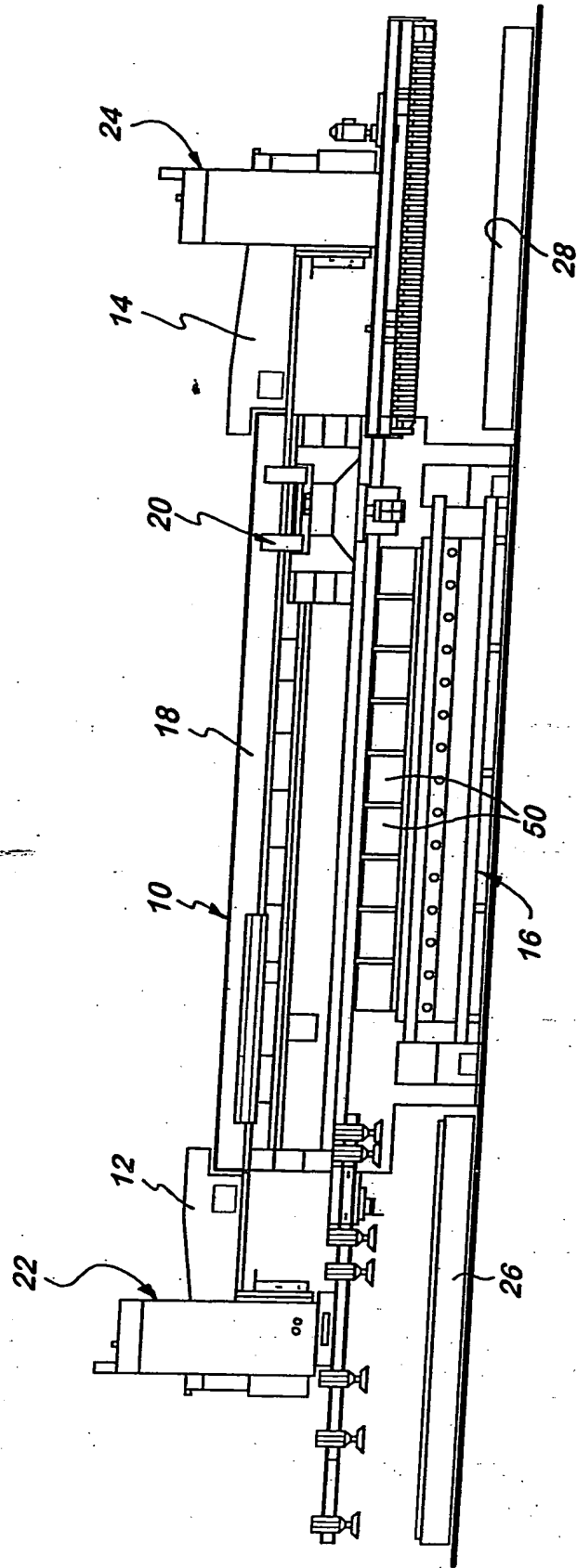


FIG. 1

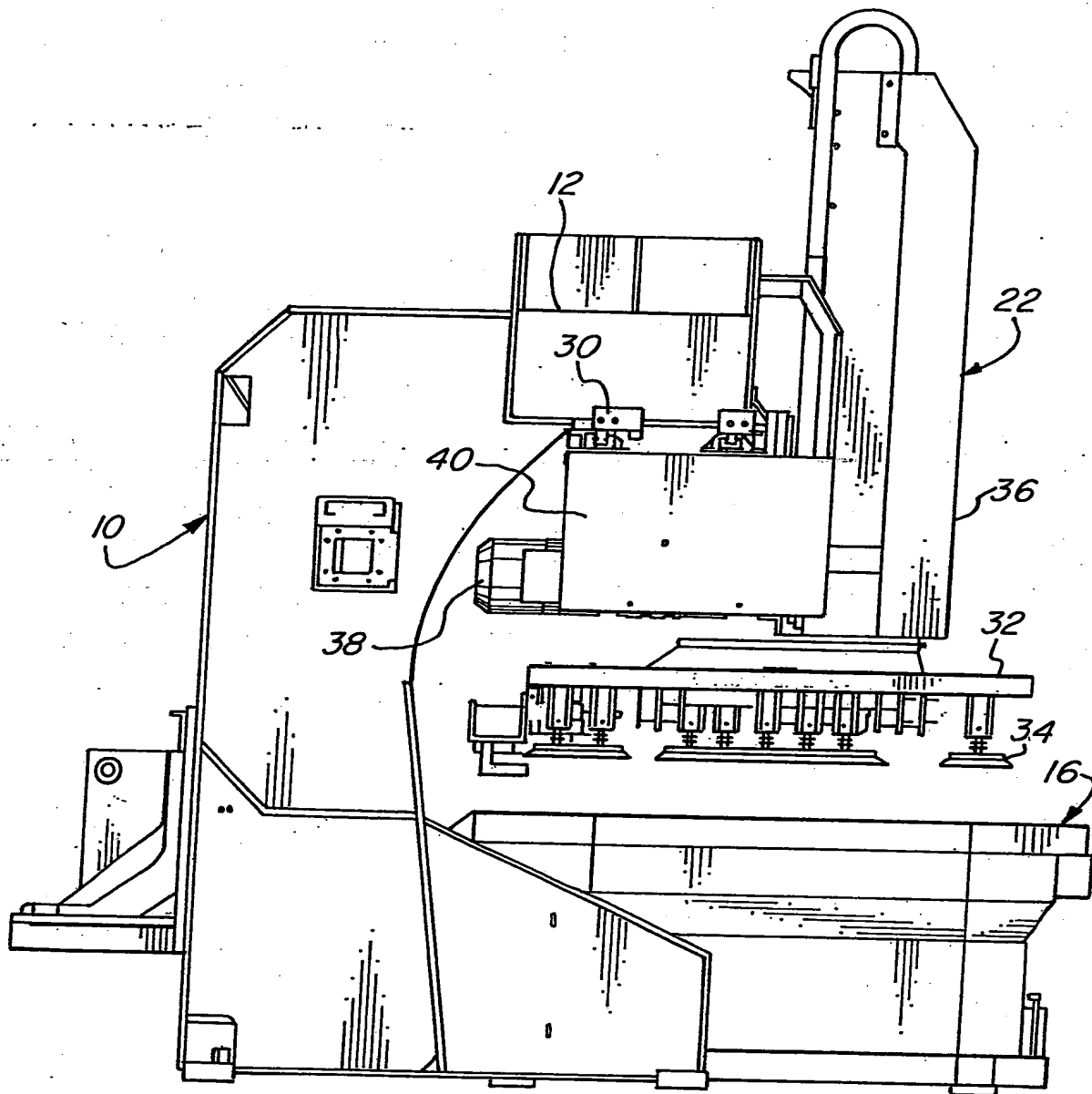
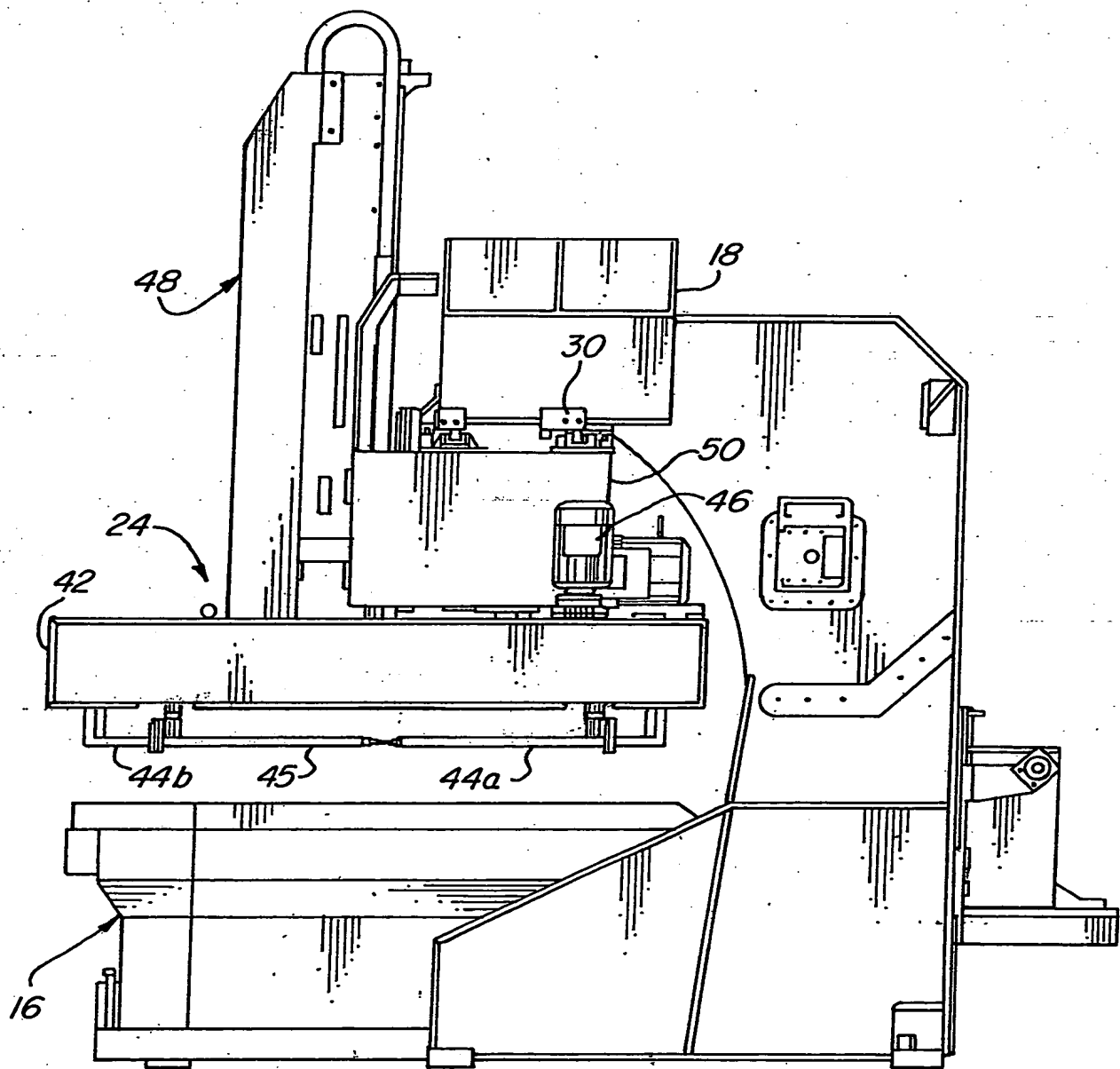


FIG. 2



**FIG. 3**

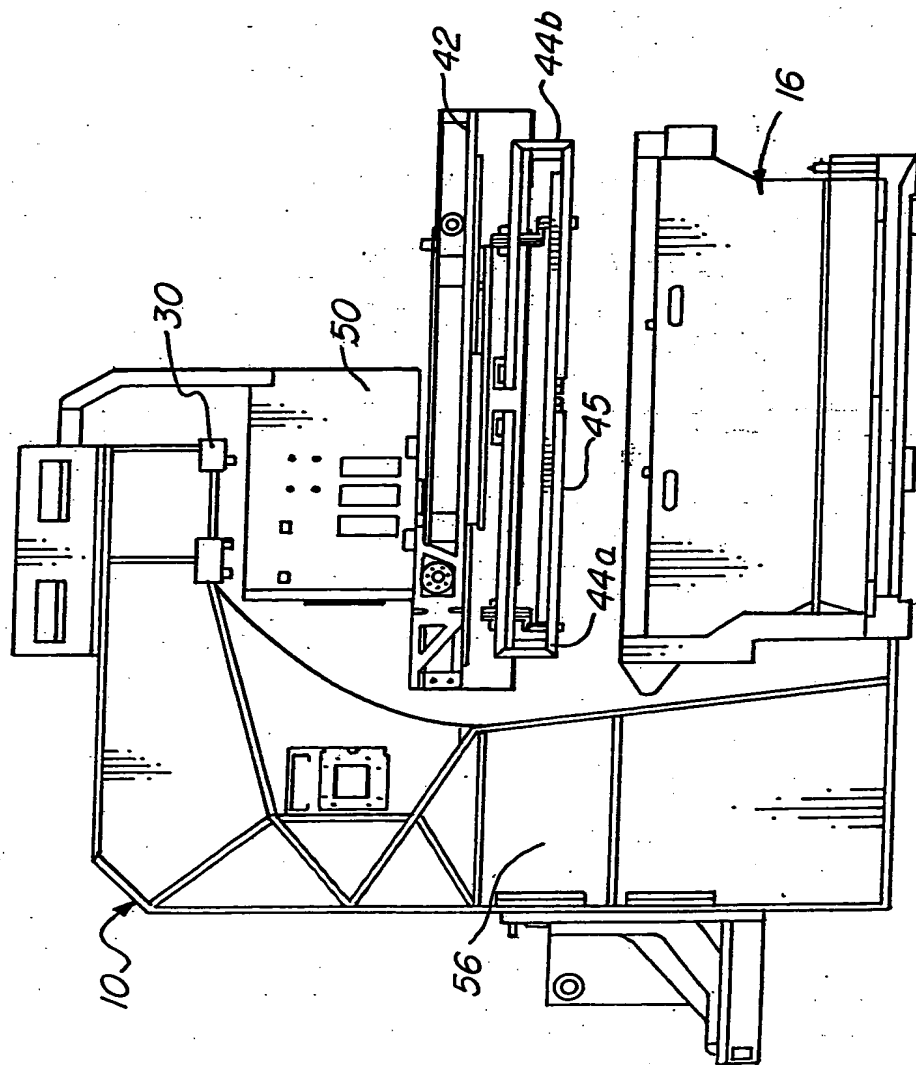


FIG. 4a

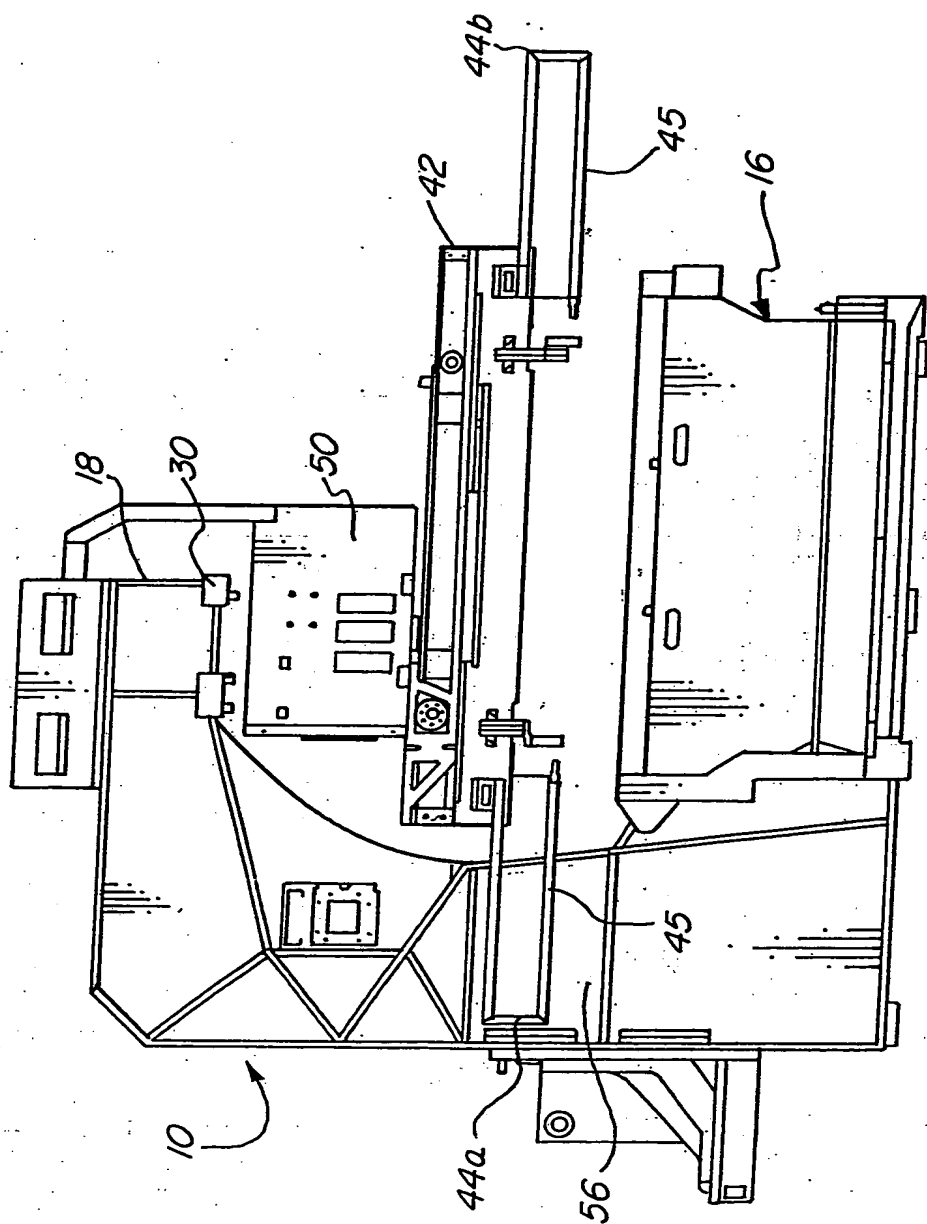


FIG. 4b

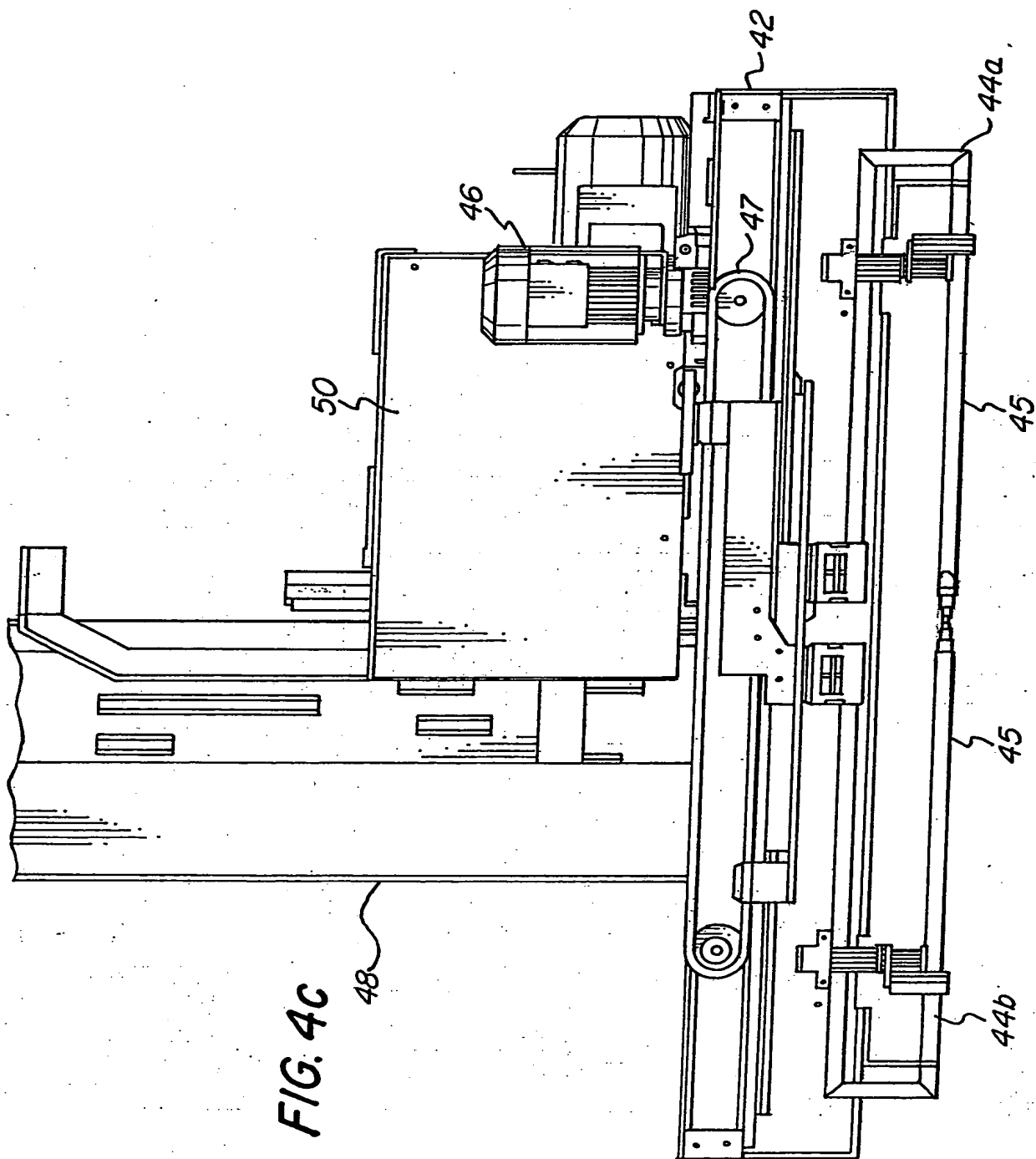
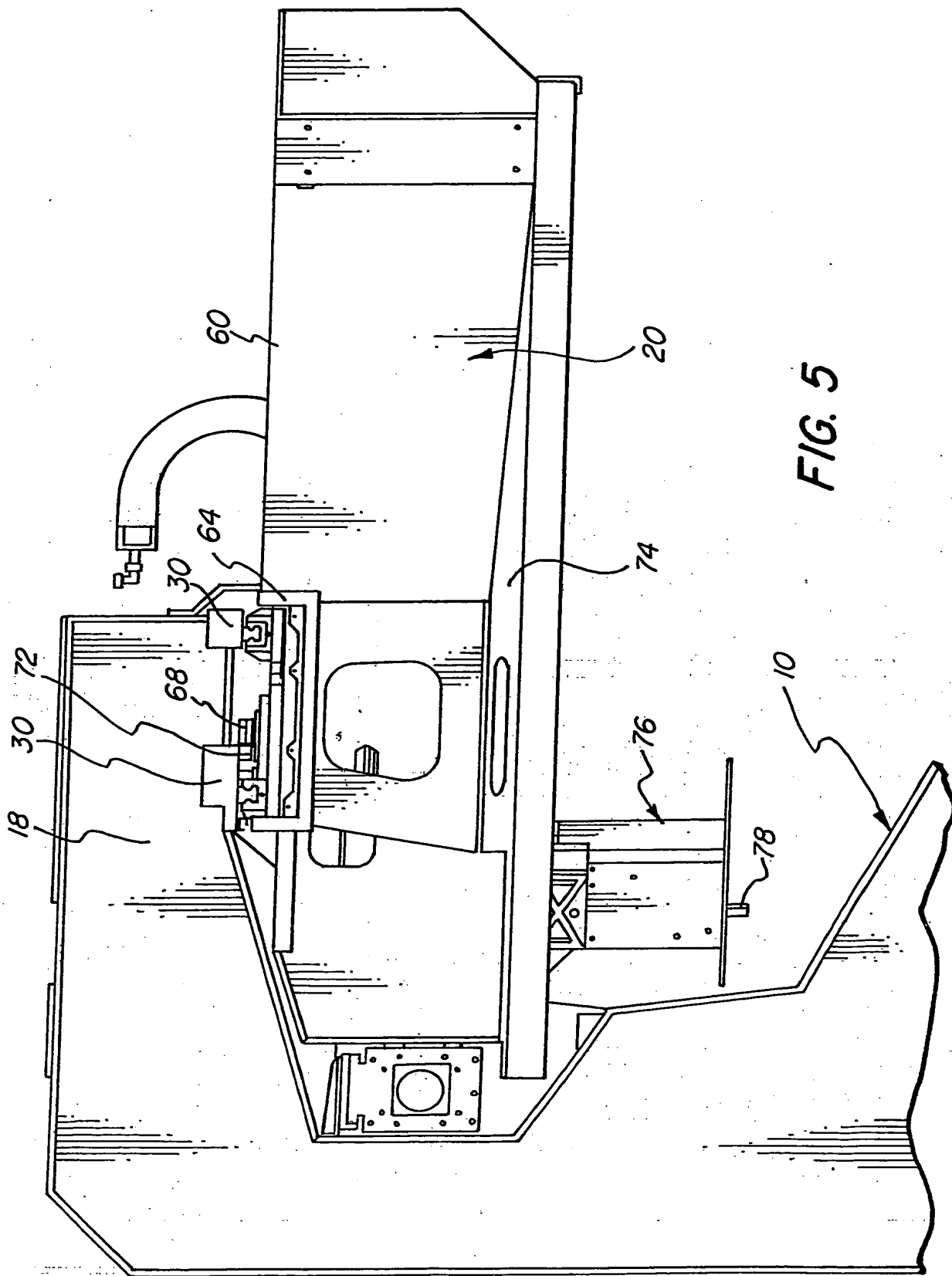
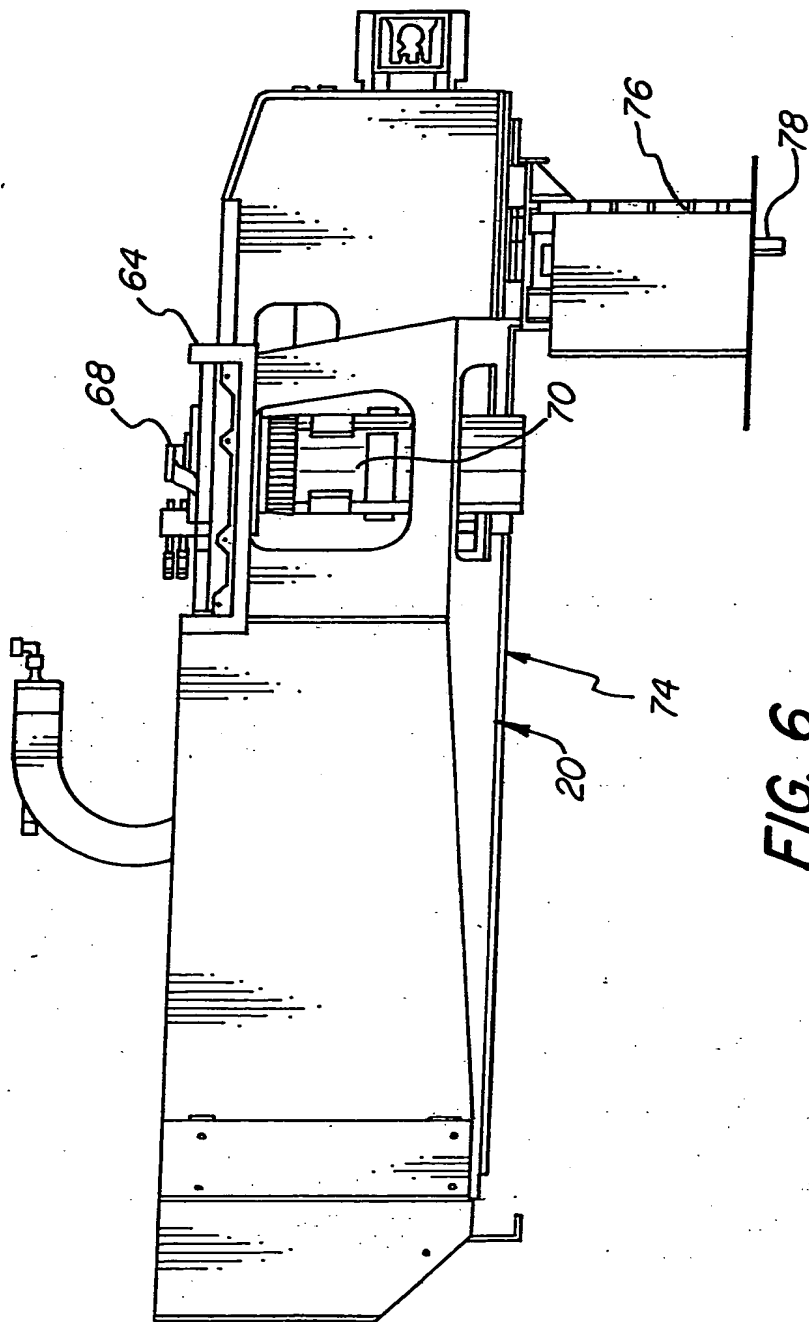
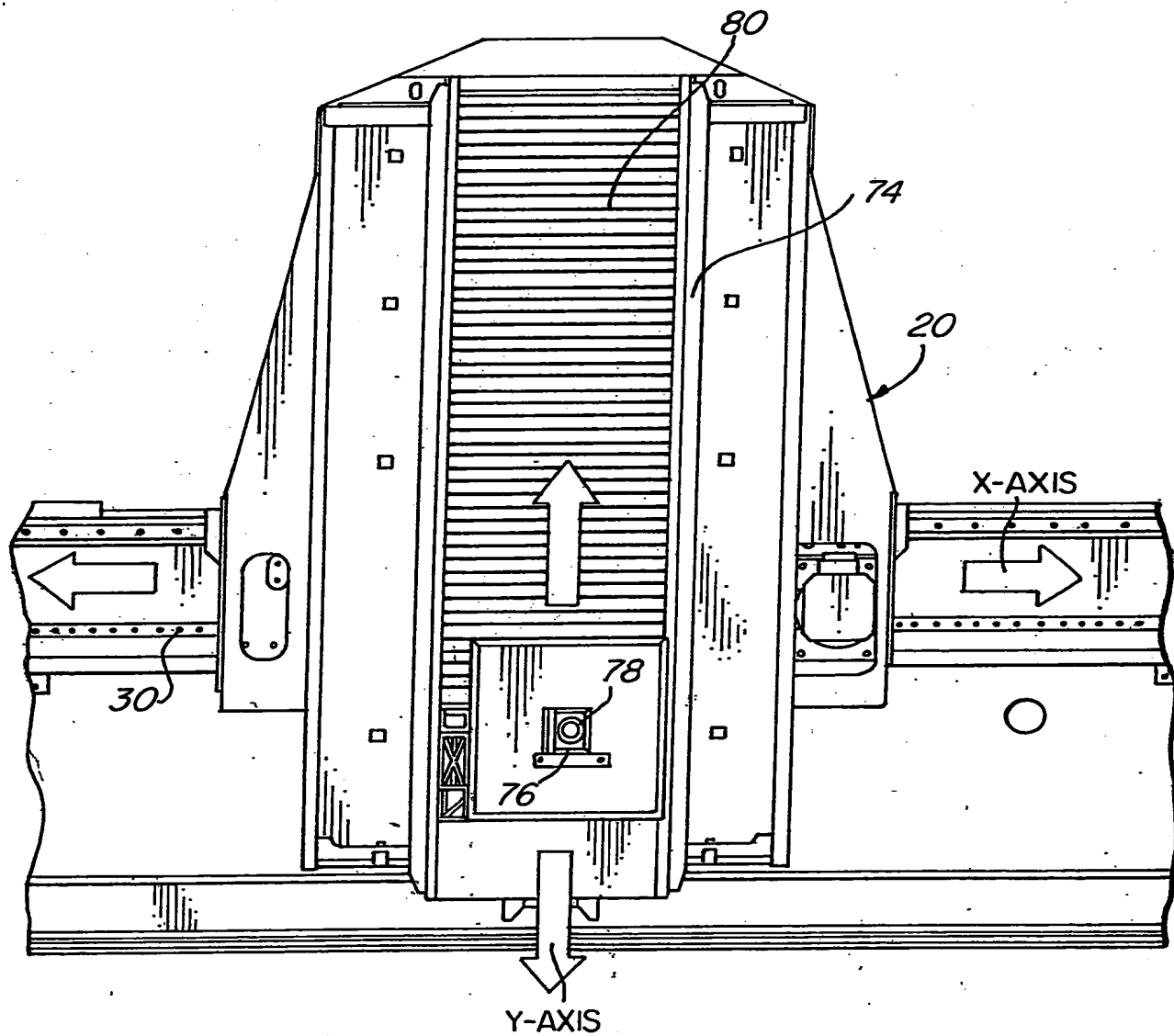


FIG. 4c

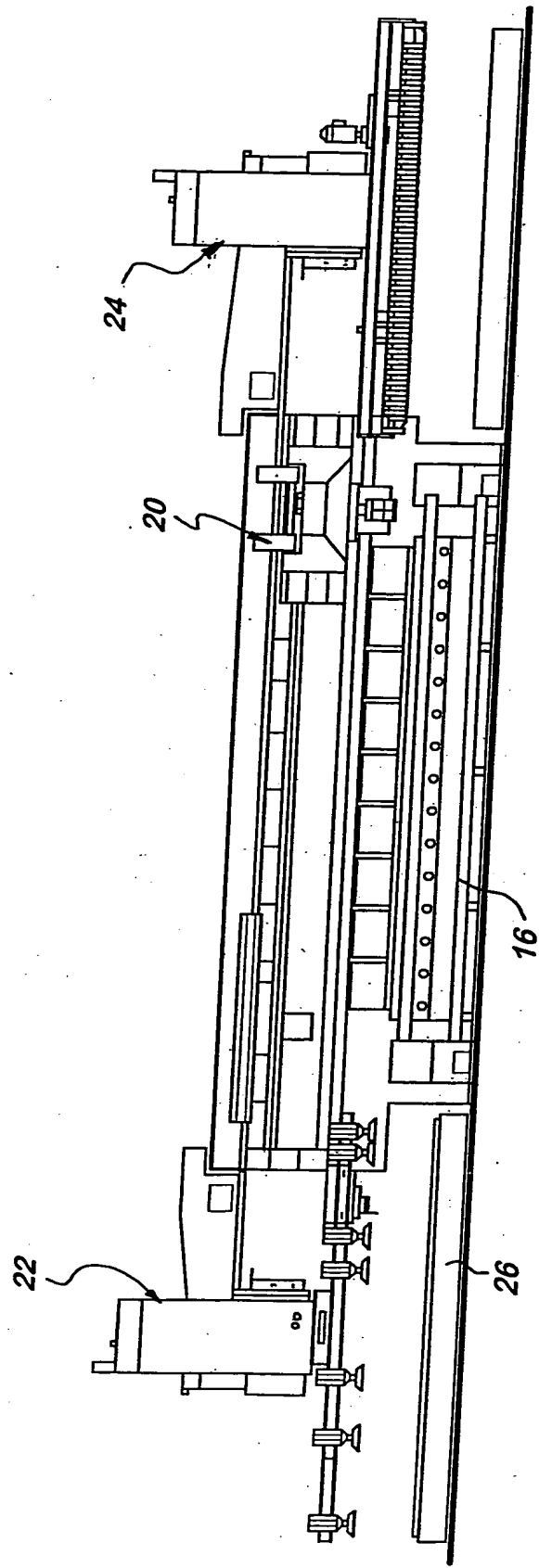




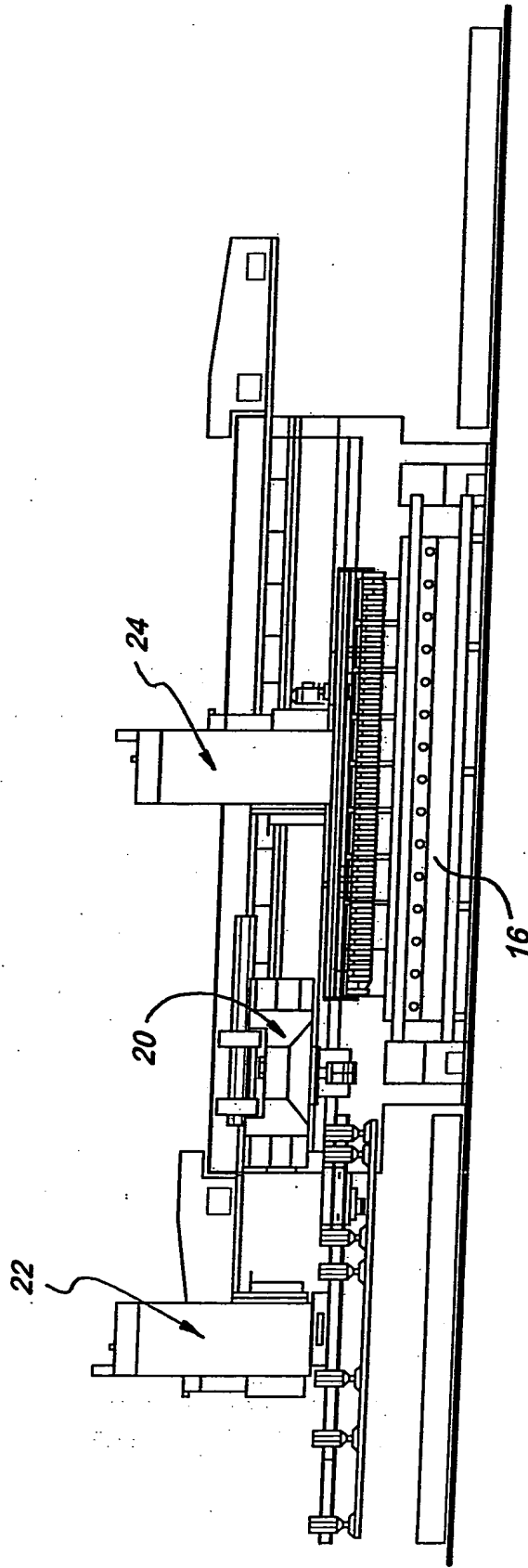




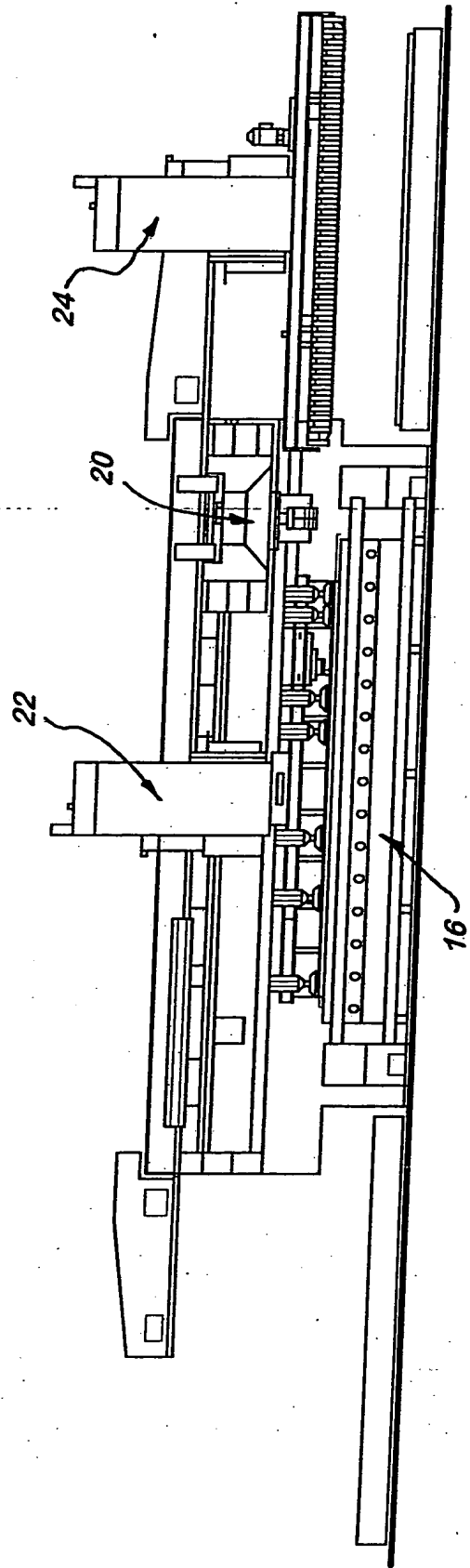
**FIG. 7**



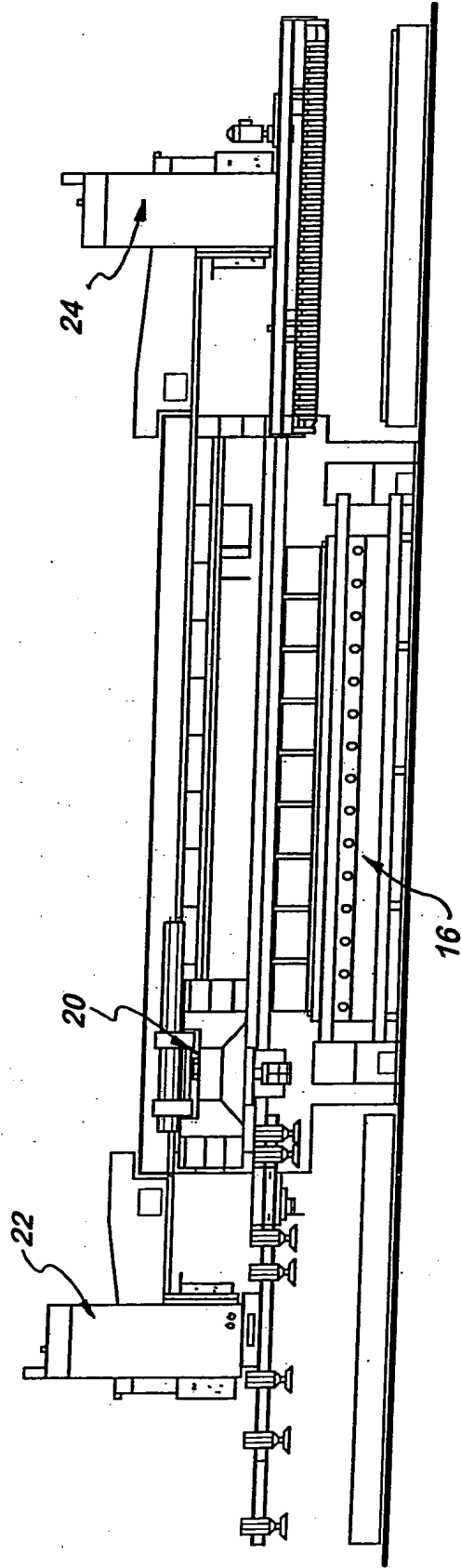
**FIG. 8a**



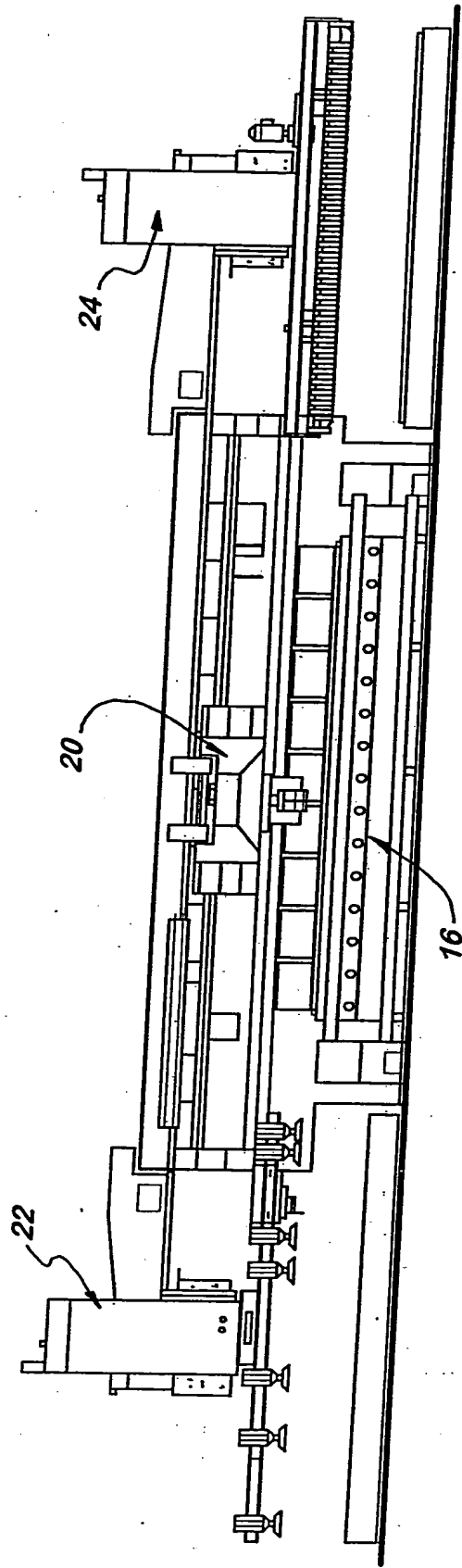
**FIG. 8b**



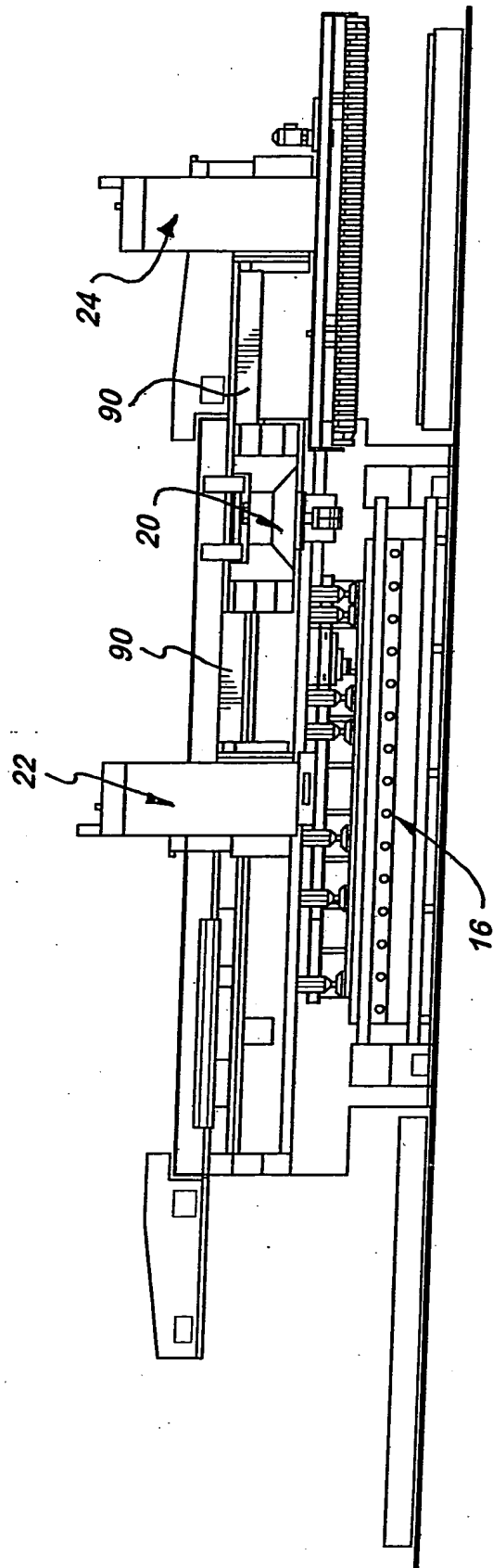
**FIG. 8C**



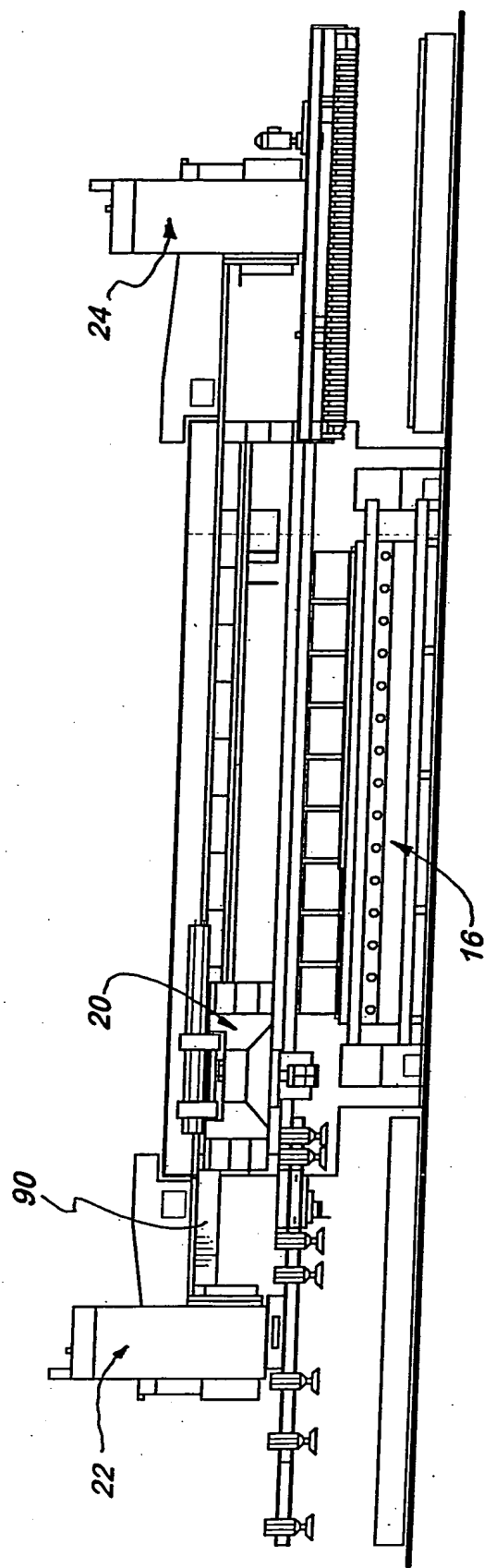
**FIG. 8d**



**FIG. 8e**



**FIG. 9a**



**FIG. 9b**





# UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office  
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,553	10/01/2003	Leonid Zeygerman	TAI-14/30536	7678

26614 7590 03/22/2005

PEPE & HAZARD, LLP  
225 ASYLUM ST.  
HARTFORD, CT 06103



EXAMINER
----------

ELVE, MARIA ALEXANDRA

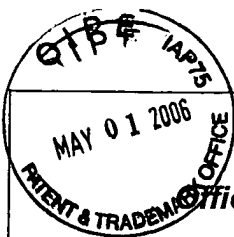
ART UNIT	PAPER NUMBER
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1725

DATE MAILED: 03/22/2005

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MAR 24 2005



# Office Action Summary

Application No.

10/676,553

Applicant(s)

ZEYGERMAN ET AL.

Examiner

M. Alexandra Elve

Art Unit

1725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 October 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 1/2/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

### **DETAILED ACTION**

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4, 6-8, & 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Puozzo et al. (USPN 4,851,637).

Puozzo et al. discloses an apparatus in which the laser head has five axes of motion and is mounted on an arm, which is in turn mounted onto a gantry with rails (guides). The axes are controller by a microprocessor and suitable motors. (abstract, figures, col. 4, col. 5)

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 5 & 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Puozzo et al., as stated above and further in view of Klingel et al. (USPN 5,132,510).

Art Unit: 1725

Puozzo et al. discloses the use of motors, but does not specifically teach the use of a rack and pinion system.

Klingel et al. discloses a laser machining system in a laser head is mounted on a carriage. The drive system for the carriage is rack and pinion mechanism. It would have been obvious to one of ordinary skill in the art at the time of the invention to use an rack and pinion drive system, as taught by Klingel et al. in the Puozzo et al. system because this enable precise positioning.

### ***Conclusion***


The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See US PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 18, 2005.



M. Alexandra Elve  
Primary Examiner 1725

PTO/SB/08A (6-95)  
Approved for use through 8/30/98, OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Department of Commerce  
Patent and Trademark Office

*(use as many sheets as necessary)*

Sheet	1	of	2
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**Complete If Known**

Application Number	10/676,553
Filing Date	October 1, 2003
First Named Inventor	Leonid Zeygerman
Group Art Unit	3722
Examiner Name	Not Assigned
Attorney Docket Number	TAI-14

Examiner Initials	Cite No. 1	U.S. Patent Document	Name of Patentees or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number (If Known)			
AC		3,226,527	HARDING	12-28-1965	
		3,855,445	TUNGLE	12-17-1974	
		4,316,073	LEMELSON	2-16-1982	
		4,656,713	ROSA ET AL	4-14-1987	
		4,677,734	BLOCK ET AL	7-7-1987	
		4,698,480	KLINGEL	10-6-1987	
		4,851,637	DUOZZO ET AL	7-25-1989	
		4,931,615	MUNCEY ET AL	6-5-1990	
		5,109,148	FUJITA ET AL	4-28-1992	
		5,192,848	MIYAKAWA ET AL	3-9-1993	
		5,310,991	FRANCO	5-10-1994	
		5,359,175	MEYAGAWA ET AL	10-25-1994	
		5,429,431	HESSBRUGGEN ET AL	8-8-1995	
		5,481,683	SMYTH, JR	1-2-1996	
		5,637,243	SATO ET AL	6-10-1997	
		5,744,718	KASH ET AL	4-28-1998	
		5,885,199	SHAO	3-23-1999	
		5,901,938	MASCA ET AL	5-11-1999	
		5,989,374	BULL ET AL	11-23-1999	
AC		6,013,895	STEADMAN	1-11-2000	

[illegible]

3/9/05

EXAMINER: Initial H reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1.<sup>6</sup> If possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

PTO/SB/08A (6-95)

Approved for use through 9/30/98. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Please type a plus sign (+) inside this box →

1442APTO  
Rev. 10/95

**U.S. Department of Commerce  
Patent and Trademark Office**

**Complete If Known**

## LIST OF PRIOR ART CITED BY APPLICANT

*(use as many sheets as necessary)*

Sheet

2

of

2

Attorney Docket Number

TAI-14

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	(Ind Code If Known)			
AC		6,046,428		SERRUYS	4-4-2000	
		6,163,010		KOBSA	12-19-2000	
		6,219,704		WHITE ETAL	4-10-2001	
		6,233,538		GUPTA ETAL	5-15-2001	
		6,243,611		HAZAMA ETAL	6-5-2001	
		6,277,314		HARDGRAVE ETAL	8-21-2001	
		6,433,342		COLOTS, III ETAL	8-13-2002	
		6,445,971		GOTTSCALK ETAL	1-3-2002	
✓		6,452,195		SMICK ETAL	9-17-2002	
AC		6,472,253		BATH RA	10-29-2002	

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

M. Alexandra Elve

Date \_\_\_\_\_

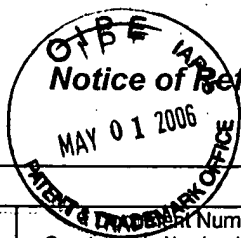
**Considered**

3/9/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1.<sup>6</sup> If possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

**Burden Hour Statement:** This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

**Notice of References Cited**

Application/Control No.

10/676,553

Applicant(s)/Patent Under  
Reexamination  
ZEYGERMAN ET AL.

Examiner

M. Alexandra Elve

Art Unit

1725

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
X	A	US-4,851,637	07-1989	Puozzo et al.	219/121.78
X	B	US-5,132,510	07-1992	Klingel et al.	219/121.82
X	C	US-5,109,148	04-1992	Fujita et al.	219/121.82
X	D	US-5,304,773	04-1994	Kilian et al.	219/121.78
X	E	US-6,606,531	08-2003	Leibinger et al.	700/114
X	F	US-5,637,243	06-1997	Sato et al.	219/121.67
X	G	US-5,854,460	12-1998	Graf et al.	219/121.67
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.





# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

26614

7590

08/17/2005

PEPE & HAZARD, LLP  
225 ASYLUM ST.  
HARTFORD, CT 06103

## NOTICE OF ALLOWANCE AND FEE(S) DUE

EXAMINER

ELVE, MARIA ALEXANDRA

ART UNIT

PAPER NUMBER

1725

DATE MAILED: 08/17/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,553	10/01/2003	Leonid Zeygerman	TAL-14/30536	7678

TITLE OF INVENTION: LASER PROCESSING INSTALLATION WITH READILY ACCESSIBLE CUTTING UNIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	11/17/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

AUG 19 2005



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,553	10/01/2003	Leonid Zeygerman	TAI-14/30536	7678

26614 7590

PEPE & HAZARD, LLP  
225 ASYLUM ST.  
HARTFORD, CT 06103

08/17/2005



EXAMINER

ELVE, MARIA ALEXANDRA...

ART UNIT

PAPER NUMBER

1725

DATE MAILED: 08/17/2005

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

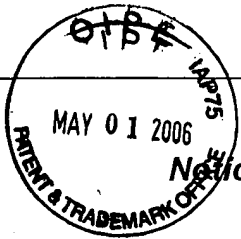
The Patent Term Adjustment to date is 111 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 111 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

AUG 19 2005



# Notice of Allowability

Application No.

10/676,553

Examiner

M. Alexandra Elve

Applicant(s)

ZEYGERMAN ET AL.

Art Unit

1725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/5/05.
2. ☒ The allowed claim(s) is/are 1-3,5-7,9 and 10.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date hereto.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 4/15/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

AUG 19 2005

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Peter L. Costas on July 21, 2005.

The application has been amended as follows:

In claim 5, line 1, replace "4" with -1--.

In claim 6, line 1, replace "4" with -1--.

New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the application is in condition for allowance (formal drawings are required). Applicant is advised to employ the services of a competent patent draftsman outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Art Unit: 1725

The following is an examiner's statement of reasons for allowance: the claims as supported by the specification differs from the prior art in that it does not teach all the claimed steps; specifically a machine tool for laser cutting in which a track runs along the lower surface of the arm with a motion unit suspended from the track and mounted adjacent its center to increase stiffness and engagable in order to transport workpieces from the loading and unloading stations and additionally, a laser cutting head movable on the motion unit which is readily accessible for serving and replacement.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1725

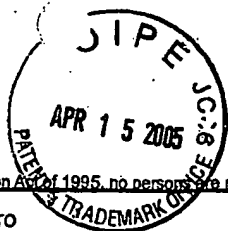
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 21, 2005.



M. Alexandra Elve  
Primary Examiner 1725

10/676, 553



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

1

**Complete if Known**

Application Number	TAI-14/30536
Filing Date	October 1, 2003
First Named Inventor	Leonid Zeygerman et al
Art Unit	3722
Examiner Name	Alexandria Elve
Attorney Docket Number	TAI-14/30536

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AE		US- 4,940,880	7/10/90	Klingel et al	
AE		US- 4,659,902	4/21/87	Swensrud et al	
AE		US- 5,101,089	3/31/92	Bortolotto et al	
AE		US- 5,373,136	12/13/94	Ernst et al	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
AE		JP 08309569	11/16/1996			
AE		JP 2000024795	1/25/2000			

Examiner  
Signature

M. Alexandria Elve

Date  
Considered

7/18/05

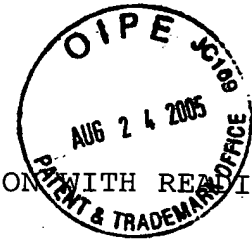
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TAI-14  
Leonid Zeygerman ET AL  
Sr. No. 10/676,553  
Filed October 1, 2003  
LASER PROCESSING INSTALLATION WITH REMOTELY  
ACCESSIBLE CUTTING UNIT



Transmittal of Issue Fee; check (\$1700)

Mailed 8/22/05 jas

AUG 29 2005

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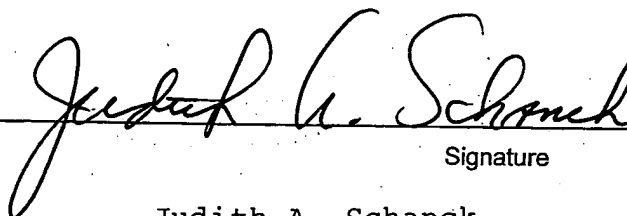
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**PEPE & HAZARD, LLP**  
**225 ASYLUM ST.**  
**HARTFORD, CT 06103**

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Judith A. Schanck	(Depositor's name)
<i>Judith A. Schanck</i>	(Signature)
August 22, 2005	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,553	10/01/2003	Leonid Zeygerman	TAI-14/30536	7678

**TITLE OF INVENTION: LASER PROCESSING INSTALLATION WITH READILY ACCESSIBLE CUTTING UNIT**

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	11/17/2005

EXAMINER	ART UNIT	CLASS-SUBCLASS
ELVE, MARIA ALEXANDRA	1725	219-121670

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

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(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Trumpf, Inc.

Farmington, Connecticut

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

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5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

*Peter L. Costas*

Date August 22, 2005

Typed or printed name

Peter L. Costas

Registration No. 18,637

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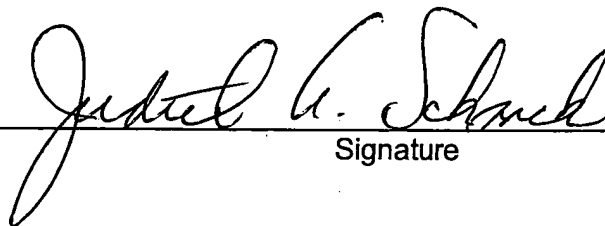
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TAI-14

Leonid Zeygerman et al

Conf. No. 7678

Sr. No. 10/676,55

Examiner Maria A. Elve

Filed Oct. 1, 2003

Art Unit 1725

Response to Notice of Allowability Dated August 17, 2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.: 10/676,553  
Applicant: LEONID ZEYGERMAN ET AL  
Filed: October 1, 2003  
TC/A.U.: 1725  
Examiner: Maria Alexandra Elve

Confirmation No. 7678

Docket No.: TAI-14/30536  
Customer No.: 26614

August 31, 2005

Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

Sir:


RESPONSE TO OFFICIAL ACTION OF AUGUST 17, 2005

In response to the Notice of Allowability requesting corrective drawings, final drawings had been filed on October 25, 2004, and had been accepted in the Official Action dated March 22, 2005.

To the knowledge of Applicants' attorney, there was no subsequent request or action with respect to the drawings.

Respectfully submitted,

LEONID ZEYGERMAN ET AL

By 

Peter L. Costas  
Attorney for Applicants  
Registration No. 18,637  
(860) 242-1630

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